

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	169	123/190.4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/24 08:01
L2	291	123/190.8.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/24 14:19
L3	1	(engine and (rotary with valve) and cylinder and convex and concave and seal and piston)[clm]	US-PGPUB	OR	ON	2006/05/24 14:21
S1	290	123/190.8.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 12:11
S2	144	S1 and rotary	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 12:14
S3	140	S2 and valve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 12:15
S4	73	S3 and seal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2004/09/27 07:55
S5	65	S4 and piston	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2004/09/27 07:55
S6	290	123/190.8.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/13 07:45
S7	144	S6 and rotary	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/13 07:35

## EAST Search History

S8	140	S7 and valve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/13 07:35
S9	73	S8 and seal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/13 07:35
S10	2	"6415756".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/13 07:36
S11	15	("2745395"   "2787988"   "2895459"   "3730161"   "3945365"   "4834038"   "4953527"   "4989558"   "5109814"   "5230314"   "5413073"   "6006713"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/13 07:36
S12	127	123/48a.ccls.	US-PGPUB; USPAT	OR	ON	2005/06/13 08:08
S13	3	S12 and rotary	US-PGPUB; USPAT	OR	ON	2005/06/13 07:45
S14	2407	piston with concave	US-PGPUB; USPAT	OR	ON	2006/05/23 12:15
S15	541	S14 and rotary	US-PGPUB; USPAT	OR	ON	2005/06/13 07:58
S16	46	S15 and rotary adj valve	US-PGPUB; USPAT	OR	ON	2005/06/13 07:58
S17	572	123/193.5.ccls.	US-PGPUB; USPAT	OR	ON	2005/06/13 08:22
S18	47	S17 and concave	US-PGPUB; USPAT	OR	ON	2005/06/13 08:09
S19	0	S18 and (rotary adj piston)	US-PGPUB; USPAT	OR	ON	2005/06/13 08:09
S20	826	123/193.6.ccls.	US-PGPUB; USPAT	OR	ON	2005/06/13 08:22
S21	165	123/190.1.ccls.	US-PGPUB; USPAT	OR	ON	2005/06/13 08:22
S22	990	S20 S21	US-PGPUB; USPAT	OR	ON	2005/06/13 08:22
S23	811	S22 and (piston or plunger\$1)	US-PGPUB; USPAT	OR	ON	2005/06/13 08:22
S24	300	S23 and (concave or curv\$2 or contour\$2)	US-PGPUB; USPAT	OR	ON	2005/06/13 08:23

## EAST Search History

S25	211	S23 and (piston or plunger\$1) with(concave or curv\$2 or contour\$2)	US-PGPUB; USPAT	OR	ON	2005/06/13 08:27
S26	33	S25 and rotary	US-PGPUB; USPAT	OR	ON	2005/06/13 08:28
S27	9	S25 and rotary adj valve	US-PGPUB; USPAT	OR	ON	2005/06/13 08:28
S28	291	123/190.8.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 13:08
S29	548	123/190.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 12:12
S31	1878	123/193.6.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 12:12
S32	905	123/193.5.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 12:12
S33	3571	S28 S29 S30 S31 S32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 12:12
S34	591	S33 and rotary	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 12:14
S35	533	S34 and valve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 12:15
S36	23	S35 and concave	US-PGPUB; USPAT	OR	ON	2006/05/23 12:15
S37	15	("2745395"   "2787988"   "2895459"   "3730161"   "3945365"   "4834038"   "4953527"   "4989558"   "5109814"   "5230314"   "5413073"   "6006713"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/23 12:24

## EAST Search History

S38	230	123/48a.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 12:28
S39	315	123/80ba.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/23 12:34
S40	130	S39 and rotary	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/23 12:34
S41	130	S40 and (rotary with valve)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/23 13:08
S42	17	S41 and (concave or convex)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/23 12:34
S43	441	123/190.14.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/23 12:43
S44	258	123/190.17.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/23 12:43
S45	679	S43 S44	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/23 12:43
S46	308	S45 and rotary	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/23 12:43
S47	298	S46 and valve	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/23 12:43
S48	14	("1273433"   "1486175"   "1486954"   "1515052"   "1578111"   "1787649"   "3547094").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/23 12:47
S49	169	123/190.4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 13:08

## EAST Search History

S50	140	123/80r.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 13:08
S51	55	S49 and (rotary with valve)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/23 13:08
S52	51	S50 and (rotary with valve)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/23 13:08
S53	103	S51 S52	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/05/23 13:08